#### PHASE I BOOK EXPLOITATION SOV/4821

Siforov, Vladimir Ivanovich, Corresponding Member, Academy of Sciences USSR

Radioelektronika v issledovaniyakh kosmosa (Radio Electronics in Investigations of the Cosmos) Moscow, Izdvo "Znaniye", 1960. 47 p. 32,000 copies printed. (Series: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya IX, Fizika i khimiya, 20)

Ed.: I. B. Faynboym; Tech. Ed.: L. Ye. Atroshchenko.

PURPOSE: This booklet is intended for the general reader.

COVERAGE: The booklet describes in popular form the use of complex radio-electronic devices in recent investigations of cosmic space. The latest achievements in Soviet radio electronics, especially those which helped to develop cosmic studies, are reviewed and the recent contributions of Soviet scientists in this field are stressed. No personalities are mentioned. There are no references.

Card 1/2-

#### PHASE I BOOK EXPLOITATION

SOV/5135

- Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova
- 100 let so dnya rozhdeniya A.S. Popova; yubileynaya sessiya (One Hundredth Anniversary of the Birth of A.S. Popov; Anniversary Session) [Moscow] Izd-vo AN SSSR, 1960. 312 p. Errata slip inserted. 2,800 copies printed.
- Sponsoring Agency: Akademiya SSSR.
- Chief Ed.: A.L. Mints, Academician; Editorial Board: G.D. Burdun, A.R. Vol'pert, I. Ye. Goron, L. I. Gutensakher, I.I. Grodnev, N.D. Devyatkov, L.A. Zhekulin, S.I. Katayev, M.S. Neyman, V.I. Siforov, and N.I. Chistyakov; Ed. of Publishing House: L.V. Gessen; Tech. Ed.: S.G. Markovich.
- PURPOSE: This collection of reports is intended for scientists and technicians working in radio engineering and telecommunications.
- COVERAGE: The reports included in this collection were submitted at the scientific meeting held in 1959 by the Nauchno-tekhnicheakoye obshchestvo radiotekhniki i elektrosvyazi im A.S. Popova (Scientific and Technical Society of Radio Card 1/7

One Hundredth Anniversary (Cont.)

SOV/5135

Engineering and Telecommunication imeni A.S. Popov) in commemoration of the 100th anniversary of A.S. Popov's birth. Only 89 of the more than 300 reports submitted at the meeting are included. The remainder are published in the periodicals of the AS USSR, State Committees, the Ministry of Communications, and the Society imeni A.S. Popov. The book contains the reports read at plenary sessions by A.M. Shchukin, Academician, A.A. Pistol'kors, Corresponding Member, AS USSR, and E.I. Adirovich and L.I. Gutenmakher, Professors, as well as those selected as the most interesting given in the following sections by their respective chairmen: Theory of Information, Antenna Systems, Receiving Devices, Wire Communications, Television, Electronics, Radio Measurements, General Radio Engineering, Transmitting Devices, Radio Wave Propagation, Electronic Computer Engineering, and SHF Ferrite Devices. These chairmen were on the Editorial Board which prepared the papers for publication. References accompany most of the reports.

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550520014-8"

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AVAILABLE: Library of Congress

J**P/dfk/gmp** 5-24-61

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Microw ve radio receivers. 2d, succl. ed. Wright-Fatherson Air Force Rese, Technical Information Center, 1970

(7-TS-9838/V)

Translated from the original Russian: Radiooriyeeniki sverkhvysokikh chastot. 2d ad. Moscow, 1957.

Bibliography: p. 685-71%.

SIFOROV, V. I.

"Studies on Code Theory in the USSR."

report presented at the 13th General Assembly of URSI - Commission VI, 5-15 Sep 1960, London, UK

SIFCROV, V. I., PROSIN, A. V. TSIBAKOV, B. S.

"Investigation of the Properties of Radio Communications Channels Containing Statistically Inhomogenous Media,"

Report presented at the 13th General Assembly of URSI - Commission VI, 5-15 Sep 1960, London UK

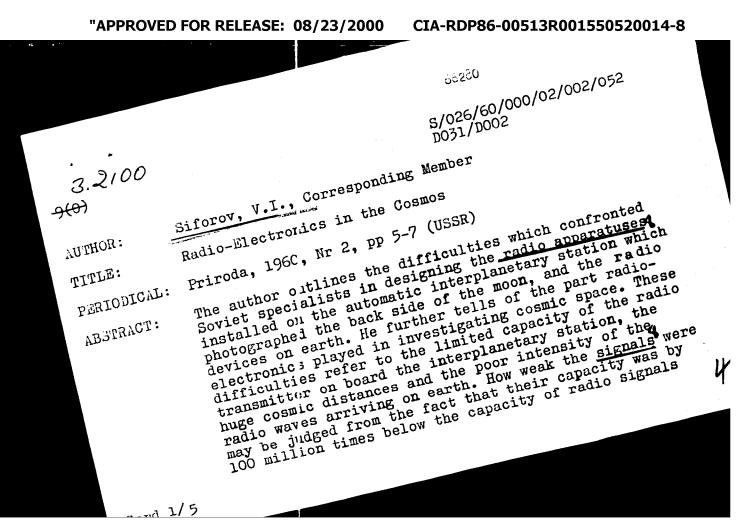
SIFOROV, V.; BERG, A.I., akademik; MINTS, A.L., akademik; KUGUSHEV, A.M., doktor tekhn.nauk, of.

Supporting the appeal of chemists. NTO 2 no.5:38 My :60. (MIRA 14:5)

1. Chlen-korrespond int Akademii nauk SSSR, predsedatel TSentral nogo pravleniya nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popo na (for Siforov). 2. Chleny TSentral nogo pravleniya nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova (for Ber ; Mints). 3. Predsedatel Moskovskogo oblastnogo pravleniya nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Parlova (for Kugushev).

(Techni al societies) (Radio research)

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S/026/60/000/02/002/052 D031/D002

Radio-Electronics in the Cosmos

received by the antenna of a usual TV set, i.e. only a few watts. Highly sensitive radio receivers and high quality antennas as well as the use of transmitting velocities which were tens of thousands times slower than the transmission speed in usual TV ground centers helped to overcome these difficulties. A longer operation of the apparatuses was ensured by solar batteries converting the sun's energy into electric power. Greater economy was exercised in using electric energy. Information was transmitted according to a certain program 2 to 4 hours per day. The station's apparatuses were controlled from earth, thus making it possible to switch them on only when necessary. The author emphasizes the greater accuracy of the initial motion data as compared with that for the launching of the second

Card 2/5

S/026/60/000/02/002/052 D031/D002

Radio-Electronics in the Cosmos

Soviet cosmic rocket. Speaking of the role played by radio-electronics in investigating the cosmic space by means of satellites and rockets, the author states that the chemical and solar power supplies ensured a continuous and stable operation of the "Mayak" radio transmitter emitting radio waves on 25,005 megacycles. Additional information on the ionosphere and the radio wave propagation was obtained by observation of the radio signal transmission. The preliminary calculation of a great number of variants of the rocket's trajectories, the calculation of admissible inaccuracies in the values of the initial velocities, the directions of the movement, the moments when the container separated, etc. - all this was carried out by means of electronic mathematical machines. The radio from satellites and rockets transmitted numerous scientific information on the most diverse

Card 3/5

68280

S/026/60/000/02/002/052 D031/D002

Radio-Electronics in the Cosmos

properties of cosmic space. It was by means of radio-electronic devices that the correctness of the chosen trajectories was checked during the initial stages of the flight. It was for the first time in the history of radio engineering and electronics that the automatic control of apparatuses on board the third cosmic rocket was carried out over a distance of about 500,000 km. With the help of an automatic system of orientation. It he station's rotation around its center of gravity was discontinued. The rotation began when the station's last stage separated and the station occupied a certain position toward the moon favorable for photographing its reverse side. This complicated technical task was accomplished with the help of a set of devices including solar and lunar pickups converting the energy of the sun's direct rays and those reflected.

Card 4/5

SIFOROV, V.1.

Lenin and radio. Izv.AN SSSR,Otd.tekhn.nauk.Energ.i avtou.
no.2:10-12 Mr-Ap '60.
(Radio)

AUTHOR:

Siforov, V. I., Corresponding Member

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A9-1881

TITLE:

Colloquium on Microwave Telecommunication Lines

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, Nr 2, pp 101-102 (UBSR)

ABSTRACT:

This is a short report on the Colloquium on Microwave Telecommunication Lines held in Budapest (Hungary) from November 10 to 13, 1959. It was convened by the Department of Technical Sciences of the Hungarian Academy of Sciences jointly with the Scientifictechnical Association for the Telecommunication System of Hungary. It was the aim of the Colloquium to discuss various scientifictechnical problems in the field of microwaves and especially radio relay communications bin the centimeter wave range. Scientists and engineers from Austria, England, Hungary, Eastern Germany, the USSR, the U.S.A., France and Czechoslovakia attended the Colloquium. In the lectures of Soviet scientists on the theory of communication channels with parameters variable at random (V. I. Siforov) and on long-distance communication by ultrashortwaves (A. V. Prosin), the basic results of the papers in this field were explained, which were ascertained at the Institut radiotekhniki i elektroniki Akademii mauk SSSR (Institute of Radiotechnics and Electronics of the Academy of Sciences USSR).

Card 1/2

SIFOROV, V.I., doktor tekhn.nauk, prof.; GUTKIN, L.S., doktor tekhn.nauk, prof.; LEBEDTV, V.L., kand.tekhn.nauk, dotsent

Development of radio engineering in the Soviet Union. Trudy MEI no.33:2,3-266 '60. (MIRA 15:3)

1. Chlen-korrespondent AN SSSR (for Siforov). (Radio)

SIFOROV, V.I.; NAYMAN, M.S.

All-Union scientific session dedicated to Radio Day.

Eadiotekhnika 15 no.7:76-79 J1 60. (MIRA 13:7)

(Electronias—Congresses)

KATSENELENBAUM, Boris Zakharovich; SIFOROV, V.I., otv. red.; SEMIDT, V.V., red. izd-va; RYLINA Yu.V., tekhn. red.

[Theory of nomuniform wave guides with slowly varying parameters]
Teoriia nereguliarnykh volnovodov s medlenno meniaiushchimsia
parametrami. Moskve, Izd-vo Akad. nauk SSSR, 1961. 215 p.

(MIRA 14:10)

1. Chlen-korrespondent AN SSSR (for Siforov). (Wave guides)

GUTKIN, L.S.; LEBEDEV, V.L.; SIFOROV, V.I.; ARENBERG, N.Ya., red.; SVESHNIKOV, A.A., tekhn. red.

[Radio receiving systems] Radiopriemnye ustroistva. By L.S.Gutkin, V.L. Lebedev, V.I.Siforov. Moskva, Izd vo "Sovetskoe radio." Pt.1. 1961. 702 p. (Radio-Receivers and reception)

SIFOROV, V.			
Electronics in outer space.	Starshserzh.	no.7:29	J1 '61. (MIRA 14:9)

1. Predsedatel Nauchno-tekhnicheskog obshchestva radiotekhniki i elektrosvyazi imeni A.S. Popova, chlen-korrespondent Akademii nauk SSSR.

(Space flight) (Electronics)

An important direction. Radio no.1044-5 0 '61. (MTRA 14:10)

1. Chlen-korrespondent AN SSSR. (Electronics)

## SIFOROV, V.I.

Draft project on terminology in the theory of reliability in the field of radio electronics. Radiotekhnika 16 no.7:77 Jl '61.

(MIRA 14:7)

l. Predsedatel TSentral nogo pravleniya Mauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni A.S. Popova, chlenkorrespondent AN SSSR.

(Radio-Terminology) (Electronics-Terminology)

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SIFORGY, V.I.; PROSIN, A.V.

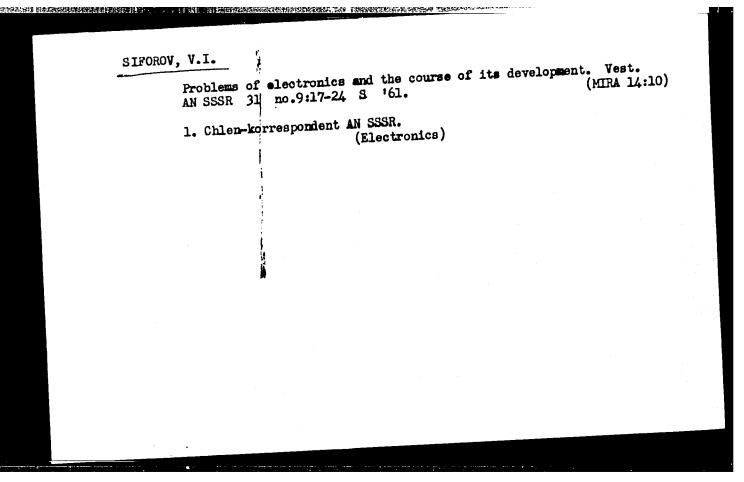
Accumulation of noises and fading in single-band radio relay lines. Radiotekhnika 16 no.8:3-5 Ag 161. (MIRA 14:7)

l. Deystvitel'nyye chleny Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi. (Radio relay systems-Noise)

SIFOROV, V.I.

Problems and development of radio electronics. Radiotekhnika 16 no.9:5-9 S '61. (MIRA 14:9)

l. Predsedatel' TSentral'nogo pravleniya Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova. (Radio)



# "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550520014-8

SIFOROV, V.I., otv. red.

[Theory of reliability in radio electronics; general concepts, failures, redundancy, parameters, and tests Teorija nadezhnosti v oblasti radioelektroniki: Obshchie poniatiia. Otkazy. Rezervirovanie. Parametry. Ispytaniia; terminologiia. Moskva, Izd-vo Aked. nauk SSSR, 1962. 46 p. (Its: Sborniki rekomendu-1. Akademiya nauk SSSR. Komitet tekhnicheskoy terminologii. emykh erminov, no.60)

- 2. Chlen-korrespondent Akademii nauk SSSR (for Siforov). (Radio—Terminology) (Radio—Quality control)
  (Electronic apparatus and appliances—Quality control)

SIFOROV, Y.

Cosmic television. Starsh.-serzh. no.5:24-25 Ky '62. (MIRA 15:6)

1. Chlen-korrespondent AN SSSR.

(Astronautics--Communications systems)

(Television)

S/C26/62/000/007/004/005 DO50/D113

Siforov, V.I., Corresponding Member, and Linkovskiy, G.B.

Reliability in the living nature AUTHOR:

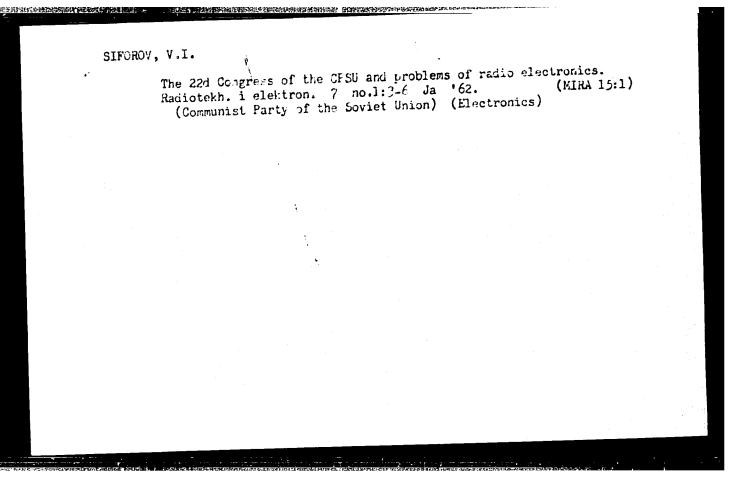
MITLE:

PERICOICAL: Friroda, no. 7, 1962, 27-30

TEXT: The functional reliability of living organisms is studied, in order to find a basis for developing electronic simulators. In this connection, the works of Academician A.M. Kolmogorov are mentioned. The reliability of functional alements of living organisms is discussed and illustrated, and the probability of a breakdown or of accident-free functioning of an organ is expressed statistically in proportion to the number of elements. The reliability of living organisms is based mainly on the fact that the functions of elements failing to operate are either taken over by reserve cells or compensated through more intense work by the remaining cells. Only recently, the study of the load reserve problem in engineering was started by G.V. Druzhinin ("Radiotekhnika i elektronika", vol. 6, no. 5, 1961). also other reasons for the functional reliability of living organisms,

Card 1/2

CIA-RDP86-00513R001550520014-8" APPROVED FOR RELEASE: 08/23/2000



33780 s/108/62/017/001/007/007 D271/D304

13,2960 9.2400 (1139, 1159, 1161)

Siforov, V.I., and Linkovskiy, G.B., Members of the Society (see Association)

AUTHORS:

Statistical evaluation of the reliability of "ageing"

TITIE: devices

Radiotekhnika, v. 17, no. 1, 1962, 62 - 67

TEXT: The authors aim at developing a method for evaluating, on a statistical basis, the danger of failure of a device, whose chances PERIODICAL: of failure grow with time; failures due to ageing and primary faults are taken into account. The danger of failure at a moment t is a(t) which is equal to the ratio of the number of devices failing in a unit time to the total number of devices operating at t; the reliability P(t) is the probability of the device not failing in the time t. When § is the random value of the operational life of the device

 $P\{\xi > t\} = P(t).$ 

The probability of  $\xi \leqslant t$ Card 1/5

S/108/62/017/001/007/007 D271/D304

Statistical evaluation of the ...

valuation of the Q(t) = 
$$P\{\xi < t\} = 1 - P(t)$$
. (2)  
Q(t) =  $P\{\xi < t\} = 1 - P\{\xi > t\} = 1 - P(t)$ .

The danger of failure and the reliability are related by the expression

$$P(t) = \exp[-\int_0^t a(t)dt]$$
 (3)

and hence

$$Q(t) = 1 - \exp[-\int_{0}^{t} a(t)dt].$$
 (4)

When a(t) = const., reliability follows exponential law. Observations show that a(t) is a continuous function of t, and the probability described a(t)bility density of & is

$$p_{\xi}(t) = \frac{dQ(t)}{dt} = a(t)exp[-\int_{0}^{t} a(t)dt], t \ge 0.$$
 (5)

The precise form of a(t) is not yet determined by observation; the Card 2/5

33780 S/108/62/017/001/007/007

Statistical evaluation of the ...

problem of reliability belongs to non-parametric statistics, but it can be reduced to parametric statistics: a(t) can be approximated by a polynomial of a sufficiently high order m

$$a(t) = \sum_{k=0}^{m} \lambda_k t^k$$
 (6)

where  $\lambda_k$  are parameters of the distribution (5). The problem is thus reduced to a well known problem of optimal evaluation of a finite multitude of parameters  $\lambda_k$  (k = 1, 2, ..., m). Primary values of t1, t2, ..., tn are found by observing \( \xi \) on a number of identical devices, n = 30 - 50. m is usually chosen between 12 and 18. Parameters  $\lambda_k^*$  are found from a system of equations of the form

$$\left[\prod_{l=1}^{n} \left(\sum_{\kappa=0}^{m} \lambda_{\kappa} t_{l}^{\kappa}\right)\right] \cdot \prod_{l=1}^{n} \frac{t_{l}^{\kappa+1}}{\kappa+1} = \sum_{l=1}^{n} \left\{t_{l}^{\kappa} \cdot \prod_{\substack{j \neq l \\ 1 < j < n}} \sum_{k=0}^{m} \lambda_{\kappa} t_{j}^{\kappa}\right\}, (\kappa = 0, 1, 2, ..., m). \tag{11}$$

Card 3/5

33780 S/108/62/017/001/007/007 D271/D304

40

Statistical evaluation of the ...

This system can be solved for  $\mathcal{I}_k$  only approximately, but with any required degree of accuracy, and then an empirical function is established for a\*(t)

$$\mathbf{a}^{*}(\mathbf{t}) = \sum_{k=0}^{m} \lambda_{k}^{*} \mathbf{t}^{k}. \tag{19}$$

The confidence interval for the true danger of failure a(t) is found from the formula

he formula
$$P = P[(a^{*}(l) - u) Da^{*}(l) < a(l) < a^{*}(l) + u Da^{*}(l)] = \frac{1}{\sqrt{2\pi}} \int_{-u}^{u} e^{-\frac{u^{2}}{2}} dw.$$
(22)

where the right-hand side is a tabulated normalized Laplace function, Da\*(t) is the dispersion. The expression for the empirical reliability P\*(t) of the device is

$$p*(\cdot;) = \exp[-\int_{0}^{t} a^{*}(t)dt]$$
 (23)

Card 4/5

SORIN. Ya.; HRUYEVICH, N.G., akademik; GNEDENKO, B.V., akad.; SIFOROV, V.I.; SOTSKOV, B.S.

Precise, strong and lasting. Znan.-sila 37 no.5:10-16 My '62. (MIRA 15:9)

1. Predsedatel komiteta Vsesoyuznogo soveta nauchno-tekhnicheskikh obshchestv po nadezhnosti i kontrolyu kachestva (for Sorin).

2. Akademiya nauk Ukrainskoy SSR (for Gnedenko). 3. Chleny korrespondent AN SSSR (for Siforov, Sotskov).

(Quality control)

SIFOROW, Wlodzimierz

Soviet radicel programme Przegl techn no.45:2 11 N 62.

1. Czlonek korespondent Akademii Nauk ZSRR.

SIFOROV, V.I.; LINKOVSKII, G.B.

Reliability in the living nature. Priroda 51 no.7:27-30 J1 162.

1. Institut raciotekhniki i elektroniki AN SSSR, Moskva.
2. Chlen-korrespondent AN SSSR (for Siforov).

(Cybernetics)

FLEYSHMAN, Bentsion Semenovich; SIFOROV, V.I., otv. red.; ZHEVSKIY, V.F., red.izd-va; POLYAKOVA, T.V., tekhn. red.

[Constructional methods of optimum coding for polsy channels]
Konstruktivnya metody optimal nogo kodirovaniia dlia kanalov
s shumami. Maskva, Izd-vo AN SSSR, 1963. 224 p.
(MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Siforov).
(Information theory) (Telecommunication)

GUTKIN, L.S.; LEBEDEV, V.L.; SIFOROV, V.I. Prinimali uchastiye:

VASIL'YEV, D.V.; SVISTOV, N.K.; LYUBIMOVA, T.M., red.;

BEINAYEVA, V.V., tekhn. red.

[Radio receiving devices] Radiopriemnye ustroistva. Pod red. V.I.Siforova. Moskva, Sovetskoe radio. Pt.2. 1963. (MIRA 17:2)

SIFOROV, V.I. (Moskva)

Marinum amount of information from a receding source. Izv.

AN SSSR. Tekn. kib. no.4:80-83 Jl-Ag \*63.

(MIRA 16:11)

SIFOROV, V.I.; TSYBAKOV, B.S.

Development of the information theory in the U.S.S.R. Part 1. General survey of papers. Izv. AN SSSR. Tekh. kib. no.5: 74-78 S-0 '63. (MIRA 16:12)

SIFOROV, V.I.

A conference devoted to the "Radio Day." Vest. AN SSSR 33 (MIRA 16:8) no.7:119 J1 '63.

1. Chlen-korrespondent AN SSSR. (Radio--Congresses)

SIFOROV, Vladimir I.

"Some problems of decoding device theory."

paper presented at Intl Conf. Microwaves Circuit Theory & Information Theory, Tokyo, 7-11 Sep 64.

Inst of Radioengineering & Electronics, AS USSR.

SIFOROV, V.

The great future of radio electronics. Tekh. i vooruzh. no.1:18-20
Ja '64.

1. Chlen-korrespondent AN SSSR.

Explorers of the Universe. Kryl.rod. 15 no. 4:6-7 Ap '64.

(MIRA 17:5)

1. Presidnet Akadem.i nauk SSSR. (for Keldych). 2. Chleny-korrespondenty AN SSSR (for Siforov, Vernov).

Froblems affecting the development of radio engineering and electronics. Vest. AN SSSR 34 no. 2:70-73 F '64. (MIRA 17:5)

1. Chlen-korrespondent AN SSSR.

SIFOROV, V.I., stv. red.

[deliability of engineering systems and articles; basic concepts: terminology] Nadezhmost' tekhnicheskikh sistem i izdelii; esnovnye poniatiia: terminologiia. Moskva, Nauka, 1965. 37 p. (Shorniki rekomanduemykh terminov, no.67a)

1. Akademiya nauk SSSR. Komitet nauchno-tekhnicheskov terminologii. 2. Chlen-korrespondent Al. SSL.

SIFOROV, V.I.; NOVIK, I.3., kand. filosofskikh nauk; SIJTSKIY, M.S., kand. filosofskith nauk

Lenin's ideas ani modern natural science. Vest. AN SSSR 35 nc.4: (MIRA 18:6)

1. Chlen-korrespondent AN SSSR (for Siforov).

AST/TT/RB/GS/GI/VIS-2 EWT(d)/FSS-2/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d) AST/TT/RB/CS/CH/WS UR/0000/65/000/000/0011/0023 50 L 1945-66 ACCESSION NR: AT5018644

AUTHOR: Siforov, V. I. (Corresponding member AN SSSR)

TITLE: Role of radio in cosmic explorations

SOURCE: Radio 70 let (Seventy years of radio); nauchno-tekhnicheskiy sbornik.

Moscow, Izd-vo Svyaz', 1965, 11-23

TOPIC TAGS: aerospace communication

ABSTRACT: A brief review of Soviet Cosmic explorations and the role of electronic and communication equipment in them is offered. The history of Soviet cosmic explorations is subdivided into five periods. The first "pre-Sputnik" period is characterized by ionospheric, galactic r-f, lunar r-f, and solar r-f investigations. The second period - from 4 Oct 57 to 12 Apr 61 covers the unmanned satellite investigations. Considerable results re characteristics of the ionosphere and lunar space (including photographing the

Card 1/2

CIA-RDP86-00513R001550520014-8" APPROVED FOR RELEASE: 08/23/2000

SIFOROV, V.I.

Patns of electronics. Friroda 54 no.5:35-40 Je 165.
(MIPA 18:6)

1. Chlen-korrespondent All SSSR.

L 09091-67 EWT(d)/FSS-2/LWT(1)/EWP(1) TT/GW	
ACC NR. AP7002332 SOURCE CODE: UR/0026/66/000/006/0	
AUTHOR: Siforov, V. I. (Corresponding Member AN. SSSR)	52 51
ORG: none	
TITLE: Soviet science in the new five-year plan	
SOURCE: Priroda, No. 6, 1966, 2-3	
TOPIC TAGS: communication sutellite, navigation system / Holniya-los	ommunication
ABSTRACT:  The directives of the Twenty-Third Congress of the Communist Part on the Five-Year Plan for Development of the National Economy for 1966 provides for the further study of space and the use of the results for provement of radio communication, radio navigation and television, met closy, etc. The Soviet communications satellite Molniya-1 has laid the ginning of a system of distant communications and other important applicant of artificial earth satellites for solution of many terrestrial lems. Equipping satellites with superior electronic apparatus will lemproved sea and air navigation. A vessel at any point in the ocean whe able to interrogate a satellite and obtain precise data on the position of motion of the matellite at this particular time. Usin	-1970 im- cor- c be- ica- prob- ad to ill tion
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ACC NR: AP7002332		. •	•		, ,	<b>)</b> -
on satellite motion to precisely compusively compusively impropagately impropagately impropagately will creating on the suntially dependention via artificia	te the positions  by the field of  ceate a global of  will result in  e earth's atmospl  nt on solar acti	s of the vessel meteorology. bservation syst improved forechere, since the vity. For impr	in the ocean. In the near fut em. Study of p asts of the pro state of the l ovement of radi	Satellites ; cure such processes oc- pagation of latter is es- lo communica-	1	
Molniya 1, there i	may be systems o	of passive and s	emipassive type	es. In these		
latter systems it reflecting radio of of great promise and semiconductor	is effectiv∈ to waves in the dir are the meth(ds	o use antennas v ec <b>tion from w</b> hi o <b>f quantum elg</b> o	hich have the d ich they are red	capability of ceived. Also	•	
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latter systems it reflecting radio of great promise and semiconductor	is effective to waves in the dir are the methods instruments.	o use antennas vection from white of quantum electric 37,397)	hich have the d ich they are red	capability of ceived. Also	•	
latter systems it reflecting radio of great promise and semiconductor	is effective to waves in the dir are the methods instruments.	o use antennas vection from white of quantum electric 37,397)	hich have the d ich they are red	capability of ceived. Also	•	•
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ACC NR: AN7003743

SOURCE CODE: UR/9036/67/000/005/0013/0013

AUTHOR: Siforov, V. (Director; Corresponding member AN SSSR)

ORG: none

TITLE: Unified, all-state automatic [information transmission system]

SOURCE: Literaturnaya gazeta, no. 5, 1 Feb 67, p. 13, col. 4-7

TOPIC TAGS: communication system, communication coding, coding

#### ABSTRACT:

In an interview, V. Siforov, Director of the Institute of Information Transmission Problems of the USSR Academy of Sciences, said that the Institute's scientists are working on the theoretical principles of a single, overall state automatic communications system (YeASS). He said that a single coded language must be adopted for all of the various information transmitting media of the system. Work toward increasing and improving the existing systems is being carried on, and work on the unified system is set for the 1966—1970 five-year plan.

SUB CODE: 09/ SUBM DATE: ncne/ ATD PRESS: 5113

Card 1/1

UDC: none

ACC NR: AP6034475

SOURCE CODE: UR/0433/66/000/010/0028/0028

AUTHOR: Semenova, S.; Siforova, T.

ORG: VNIIKhSZR

TITLE: Fitios, a new acaricide

SOURCE: Zashchita rasteniy, no. 10, 1966, 28

TOPIC TAGS: pest control, acaricide, ANIMAL, PHOSPHATE, CARBAMIOE

ABSTRACT: Fitios 0,0-dimethyl S-(N-ethylcarbamidomethyl) dithiophosphate was used successfully against rodent parasites, especially ticks. When used in commercial concentrations, percent kills varied between 90-100%. This compound is persistent, retaining its properties up to two weeks. In the laboratory, concentrations fatal to single ticks varied between 0.00015 to 0.001% solutions.

[W.A. 50]

SUB CODE: 06/ SUBM DATE: none

Card 1/1

UDC: 632,951.1

L h1730-66 FWT(m)/FWF(i)/EWF(t)/ETI TJF(c) JD/JG/RM	
ACE NR. AP6020367 (A) SOURCE CODE: UR/0078/66/011/003/0475/0477	]
AUTHOR: Ivanov-Emin, B. N.; Siforova, Ye. N.; Fisher, Marianna Mekes; Kampos, 33	-
ORG: Peoples' Friendship University im. Patrice Lummba (Universitet drushby marodov)	
TITIES Study of the solubility of hydroxides of certain lanthanides in sedium	
SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 3, 1966, 475-477	1
TOPIC TAGS: hydroxide, solubility, sodium hydroxide, lanthamum compound, ytterbium compound	
ABSTRACT: The solubility isotherm of lanthamm, gadolinium, and ytterbium hydroxides in sodium hydroxide solutions of various concentrations was studied at 25°C. The solubility of lanthamum hydroxide does not increase with rising NaOH concentration. The solubility isotherm of gadolinium hydroxide rises only slightly with NaOH concentration; the solubility curve has no maximum. In the case of ytterbium hydroxide, the solubility isotherm has a distinct maximum at an NaOH concentration of approximately 14.1 N; the solubility at this maximum amounts to 4 g of hydroxide per liter of solution, i.e., 2 x 10 <sup>-2</sup> mole/1. The solid phase up to the maximum is Tb(OH) <sub>3</sub> , and at higher NaOH concentrations the solid phase is sodium hydroxoytterbate	
Card 1/2 UDC: 546,65-36	I

SIFRER, M.

The valleys of Tolminka and Zalasca during the Pleistocene. p. 253.

GEOGRAFSKI ZEORNIK. AGTA GEOGRAPHICA. Ljubljana. Vol. 3, 1955

So. East European Accessions List Vol. 5, No. 9 September, 1956

SIFRER, Milan

Snowfields in the Savinja Alps. Geogr zbor SAZU 6:271-286 '61.

SIFRER, Milan, dr.

"The beginning and development of a valley" by Sieghard Morawetz Reviewed by Milan Sifrer. Geogr vest 33:190-191 '61.

1. Clan Uredniskega odbora, "Geografski vestnik".

SUBJECT

USSR / PHYSICS

CARD 1 / 2

THE BUTTON PROPERTY OF THE PARTY OF THE PART

PA - 1636

AUTHOR

SIFRIN, F.S.

TITLE

A Method for Studying the Electron Terms of Diatomic Molecules. The Electron Terms and the Lengths of the Molecules of Alkali

Metals and of their Hydrides.

PERIODICAL

Dokl.Akad.Nauk, 110, fasc.4, 549-551 (1956)

Issued: 12 / 1956

It applies in approximation that  $T_k^1 = C_k = const.$  Here  $T_k$  denotes the optic electron terms and 1 - the length of the molecule. A method for the study of  $T_k$  of diatomic (and possibly also of triatomic) molecules is suggested, namely the reciprocal tuning of the totality of the electron terms of the homologous molecules with the help of the mentioned rule. This method is explained on the basis of an example. The values of Tl of the various molecules are actually grouped around the two numbers 45 000 and 60 000. The same ordinal number is ascribed to the terms with similar T1, namely in the case of T1  $\sim$  45 000 T = T<sub>1</sub> and of T1 = 60 000 T = 2. Also the symbols belonging to  $T_1$  and  $T_2$  are given. For the term 14.663 of  $Rb_2$  one obtains  $T_2$  and besides this term is odd. For  $T_1$  it apparently applies that  $T_1 1 \sim 45\,000$ . Herefrom follows for  $Rb_2$  with 1 = 4,23 the value  $T_1 \sim 10$  600. The method is simple and effective, it permits the systematization of the electron terms and the discovery of hitherto unknown terms. If, in future, a new term is found for

SIFHOSHVILI, N.A., starshiy nauchnyy sotrudnik; MINASYAN, L.G.

university aurunivationer in mannang besimmen her og er hende med det en grandskrede in grandskrede in det en d

Readers' letters. Zashen. rast. ot vred. i bcl. 9 no.2: 17 '64. (MIRA 17:6)

1. Gruzinskiy institut sadovodstva, vinogradarstva i vinodeliya, Tbilisi (for Sifroshvili). 2. Armyanskaya karantinnaya laboratoriya (for Minasyan).

YUGCEL.VIA/Chemical Technology. Chemical Products. Corresion. Corrosion. Frotaction.

17 1 1 1 1 1 1 1 m

n-4

Abs Jour : Rof Zhur - Khimiye, 1958, No 22, 74354

: Sifter J. Author

Not Given Inst

: Corrosion of Sower Fipes of the City of Zagrob. Title

Orig Pub : Zest. meter., 1956, 6, No 1, 35-37

Abstract : Fossible reasons for corresion of the concrete sawer pires, incepecitated efter 8 years of service (from the time of installation), ere reviewed in detail. On the basis of this invostigation it was concluded that a combination of a number of fretors, of which corresivity of the industrial offluents as the princry one, were responsible to this corrosion. In order to provent repetition of similar incidents it was recommended that a survey of corresivities be conducted in every specific instnet, before new cenerate sewer lines ero constructed.

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5

ODERCHIONARIO ANTIGORIA DE LA CONTROL DE LA

SIFTAR, Dubravko, ing.chem.(Zagreb); JURKOVIC, Ivan, dr.ing.(Zagreb)

Witherite of Homer in Gorski Kotar, Croatia. Geol vjes Hrv 14: 89-95 '60 (publ. '61).

1. Institute o: Mining Chemistry, Technological Faculty, University of Zagreb, Hagreb, Kacieva 26 (for Siftar). 2. Institute of Mineralogy, Petrology and Ore Deposits, Technological Faculty, University of Hagreb, Zagreb, Kaciceva 26. Clan Urednickog odbora, referent, "Geoloski vjesnik" (for Jurkovic)

BRCIC, B.S.; BRENCIC, J.; SIFTAR, J;

Synthesis of calcium metatitanate at low temperature. Pt. 2. Croat chem acta 3; no.2:135-139 '63.

1. Laboratorij za anorgansko kemijo, Institut za kemijo, Univerza v Ljubljuni.

SIFTAR, Jaroslav, inz.

Mining results for the first half of 1963. Uhli 5 no.8:257-258 Ag '63.

1. Ministerstvo poliv.

ZOIOTAREV, N.D., kand.techn.nauk; SIGACHEV, A.Ye., inzh.

Peculiarities of mining and the design of open pit elements in cases of rock transfer to external dump piles. Izv.vys. ucheb.zav.; gor.zhur. no.7:15-26 '59. (MIRA 13:4)

1. Leningradski; ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy :.nstitut imeni G.V.Plekhanova. Rekomendovana kafedroy rasrabotki rudnykh mestoroshdeniy. (Strip mining)

FADEYEV, 1.8.; STGACHEL is in.

Inclined boreholos as a means of leveling the bench floors in grant to quarries. Zape 10° 49 no.3291-94 164.

(MIRA 18:8)

MUSTEL', P.I.; DYAD'KIN, Mu.D.; BOKIY, B.V.; KELL', L.N.; KOMAROV, V.B.; SEMEVSKIY, V.N.; BORISOV, D.F.; GOLOVIN, G.M.; USEVICH, I.V.; DUBRAVA, T.S., SHABLYGIN, A.I.; ZOLTOLAREV, N.D.; GALAYEV, N.Z.; SIGACHEV, A.Ye.; PANENKOV, Yu.I.; SENUK, D.P.; KOPYLOVA, Ye.V.

Pavel Ivanovich Gorodetskii; an obituary. Gor zhur. no.5:77 My '60.
(MIRA 14:3)
(Gorodetskii, Pavel Ivanovich, 1902-1950)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550520014-8"

L 10491-65 EWT(1)/EWA(h) Per GG/MLK ACCESSION NR: AT4047629 S/0000/64/000/000/0339/0376

AUTHOR: Solov'yeva, S. F.; Sigachev, I. I.; Surkova, N. A.; Kogteva, Ye. V.

TITLE: Relay-and-microswitch-type contacts for small-signal switching

SOURCE: Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i kontaktny\*m materialam. 3d, Moscow, 1962. Elektricheskiye kontakty\* (Electric contacts); trudy\* soveshchaniya. Moscow, Izd-vo Energiya, 1964, 339-376

TOPIC TAGS: small signal switching, small signal contact, microswitch contact, relay contact

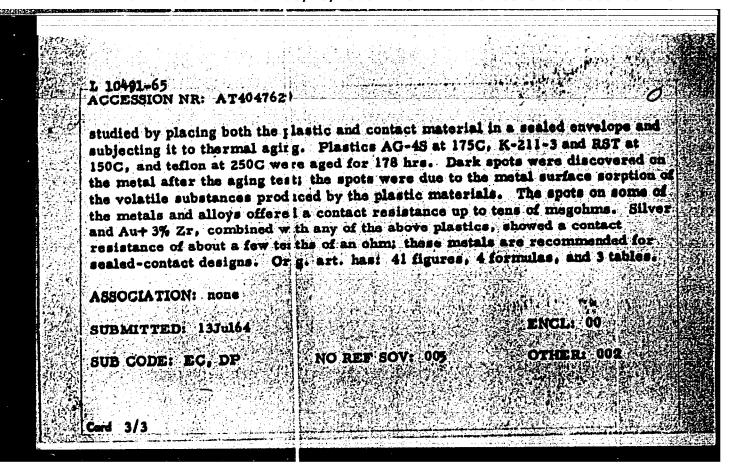
ABSTRACT: An investigation of the effect of films on contact surfaces is presented. Two designs of contacts were studied: (1) Air-exposed contacts and (2) Sealed-in-plastic-container contacts. The "effect of long storage" was studied by subjecting the contacts to a 10-15-mlit/min flow of H<sub>2</sub>S, concentration 3 mg/liter, at 25±3C, 95±3% humidity, for 48 hrs; Ag, Au, Pt, Pd, and

Card 1/3

L 10491-65 ACCESSION NR: AT4047629

their alloys with Ni, Zr, Rh, were tested as contact materials. "Methods of investigating the electrophysical characteristics of surface films formed on contact materials" included measuring the resistance, by voltmeter and ammeter, of a contact between the plate specimen and a sphere made from Pt+25% Ir alloy; the test plate was placed in a PMT-3 microhardness tester whose diamond indentor was replaced with the above sphere; a contact pressure of 0.5-200 g was applied; open-circuit voltage was 50 mv; current, 10-6-10-1 amp. "Contact resistance" was determined as a function of (a) pressure and (b) current; results in the form of curves and tables are reported. It was found that: (1) Only those alloys based on Au and Pt are fit for operation in a modern industrial-center atmosphere that contains H2S; (2) The best of them proved to be Au+16% Pd; (3) Also, Au+5% Ni and Au+3% Zr deserve the attention of further studies; (4) Of the Pt alloys, Pt+10% Rh can be recommended; however, its contact resistance was found to be nearly 4 times as high as that of Au+16% Pd after the test; (5) Ag and its alloys are unfit for use in exposed-contact designs. The "effect of organic volatile substances on contacts in sealed designs" was

Card 2/3



576 11 1153, N. 1.

BLINOV, Igor' Aleksandrovich, dots., kand. tekhn. nauk; ZHERLAKOV, Aleksandr Vasil'yevich, dots., kand. tekhn. nauk; IKONNIKOV, Dmitriy Mikolayevich, dots; SMIRNOV, Yevgeniy Leonidovich, dots., kand. tekhn. nauk; YAKUSHENKOV, Andrey Andreyevich, starshiy naucinyy sotr., kand. tekhn.nauk; SIGACHEY, N.I., dots., kand. tekhn. nauk, retsenzent; RODIONOV, A.I., dots., kand. tekhn. nauk, retsenzent; ZOTEYEV, Ye.S., kand. fiz.—mat. nauk, retsenzent; SERKO, G.S., red.; TIKHONOVA, Ye.A., tekhn. red.

[Electric navigation instruments] Elektronavigatsionnye pribory. [By] I.A.Blinov i dr. Moskva, Izd-vo "Morskoi transport," 1960. 674 p. (MIRA 15:3) (Electricity on ships) (Aids to navigation)

SHULEYKIN, V.V., akademik; SIGACHEV, N.I.

New test of the hypothesis concerning the nature of magnetic declination. Dokl. AN SSSN 140 no.1:107-110 S\_0 61. (MIRA 14:9)

1. Nauchno-issledovatel skoye sudno "Mikhail Lomonosov". (Magnetic anomalies)

ı	ACCESSION NR: AP5010923 UR/	0286/65/000/007/0109/0109	
	AUTHORS: Blagoveshohenskiy, M. N. Sigachev, N. I.; Ko		
	F. A.	3	
	TITLE: A gyroscopic device. Clas   42, No. 169807		
	SOURCE: Byulleten' izobreteniy i jovarnykh znakov, no. 7	, 1965, 109	
	TOPIC TACS: gyroscope system, photosensitivity, kinetic	method	
	ABSTRACT: This Author Certificate presents a gyroscopic	device containing a	
	hollow rotor filled with a liquid, a universal suspension	i joint, an optical	
	tracking system (consisting of a light source, a condense photosensitive cell), amplifiers, and instantaneous gauge	es (see Fig. 1 on the	
	Enclosure). To increase the kinetic moment while using a simplify obtaining a signal, the sherical hollow in the	neavy liquids and to	
	with a heavy liquid. The axis of the optical system prod		
	beam impinging upon the photosensitive cell coincides wit the rotor. Orig. art. has: I fig re.	h the rotation axis of	
	AND TARABLE CLAS MOSE T TIPE TO STAND THE STANDS OF THE ST		
	ASSOCIATION: none out on these 25 ap		100000000000000000000000000000000000000

# Introduction of t.me-work-bonus system of wages at the Orotukan Plant. Kolyma 21 no.2:4-6 F '59. (MIRA 12:7) 1.Filial Normativno-issledovatel'skoy stantsii. (Orotulan-Machinery industry) (Wages.

 altendenturis of the lungs. Sov.mal. 21 apro: 48-90 Je 157. (Make 10-9)
1. To assediy renigencies, it is really logic dood be asked mediteir skede institute institute of the Maineys (MINOS-TUNGS)

GIGACHEV, V.F., dotsent (Gor'kiy, ul. M.Gor'kogo, 4.149-a, kv.33)

Differential diamosis of Besnier-Boeck-Schaumann disease. Vest. rent.i rad. 36 no.3:36-41 My-Je '61. (MIRA 24:7)

1. Is kafedry rentgenologii i radiologii (sav. - dotsent V.F.Sigachev)
Gor'kovskogo meditsinskogo instituta imeni S.M.Kirova (dir. - dotsent
N.N.Misinov).

(GRANULOMA BENIGHUM)

SIGACHEV, V.F., dotsent (Gor'kiy)

Pneumosclerosis or chronic pneumonia? Klin. med. 41 no.4: 145-146 Ap '63. (MIRA 17:2)

1. Iz kafedry rentgenologii i radiologii (zav. - dotsent V.F. Sigachev) Gor'kovskogo gosudarstvennogo meditsinskogo instituta imeni S.M. Kirova (rektor - dotsent I.F. Matyushin).

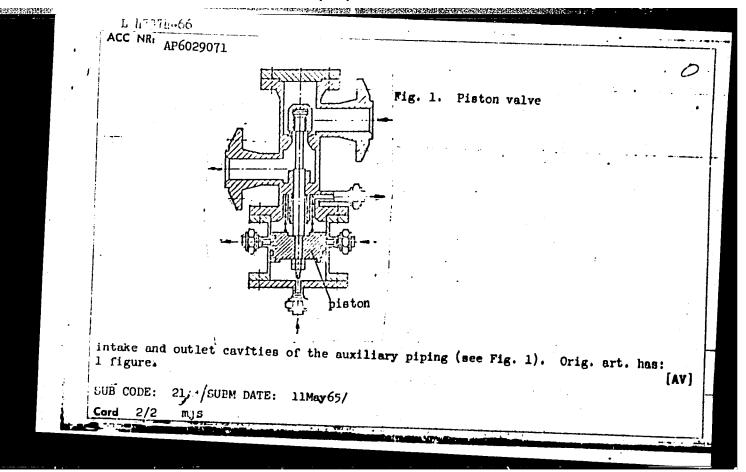
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GAVRILENKO, N.I.; SIGACHEV, V.K.

Experimental gasoline vending pump in a service station. Iransp. k khran. nefti no.1:23-26 '63. (MIRA 16:9)

l. Novosibirskoye upravleniye Glavnogo upravleniya po transportu i  $\operatorname{sn}_n$ bzheniyu neft'yu i nefteproduktami NSFSR.

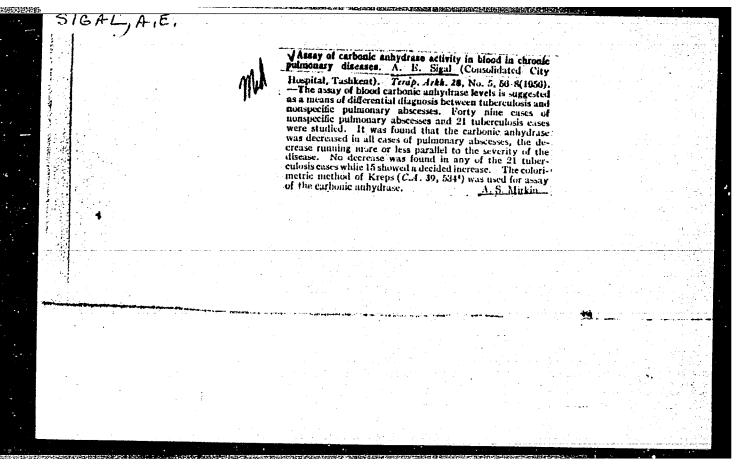
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	Anne March (March) (March) (March) Wh
	h737a-96 Ear. a)/ENT(1)/EIP(v)/2-2/EIP(k) ENT(h)/MP(1) WN  SOURCE CODE: UR/0413/66/000/014/0128/0129
INV	VENTOR: Gerlovin, L. I.; Chernovin, N. A.; Averin, V. A.; Nagibin, A. Ya; rgashov, A. L; Aleksandrovskiy, A. A.; Sigachev, V. P.; Mikhaylovskiy, M. M.; ronov, M. I.
[a	TLE: Valve with a hydraulic or pneumatic piston drive. Class 47, No. 104044 Innounced by the Special Design Office of the Baltic Boiler Building Factory in.  Ergo Ordzhonikidze (Spetsial'noye konstruktorskoye byuro kotlostroyeniya Baltiyskogo
Za	avoda)   128-129
TO	OPIC TAGS: valve, hydraulic piston drive, pneumatic piston drive is designed mematic durice, piston arrive is designed BSTRACT: The proposed valve with a hydraulic or pneumatic piston drive is designed.  BSTRACT: The proposed valve with a hydraulic or pneumatic piston drive is designed as a long to the through flow-section of main and auxiliary pipings. In
o	BSTRACT: The proposed, valve of main and addition proposed, valve or opening and closing the through flow-section of main and addition proposed is or opening and closing of both pipings, its control piston is order to synchronize the opening and closing of both pipings, its control piston is order to synchronize the open valve position, connects the provided with an annular groove, which, in the open valve position, connects the
	UDG: 621.646.23-82-85
10	Cord 1/2



SIGAL, A.B., inzh.; SAVOSTYUK, A.S., inzh.; IL'IN, G.I., inzh.

Condensate treaument. Energetik 12 no.11:17-20 N '64 (MIRA 18:2)

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SIGAL, A.E.; TOLKACHEVA, T.V.

Rate of radioiodine concentration as an indimator of absorptive properties of the gastrointestinal tract. Probl. endok. i gorm. (MIRA 14:1)
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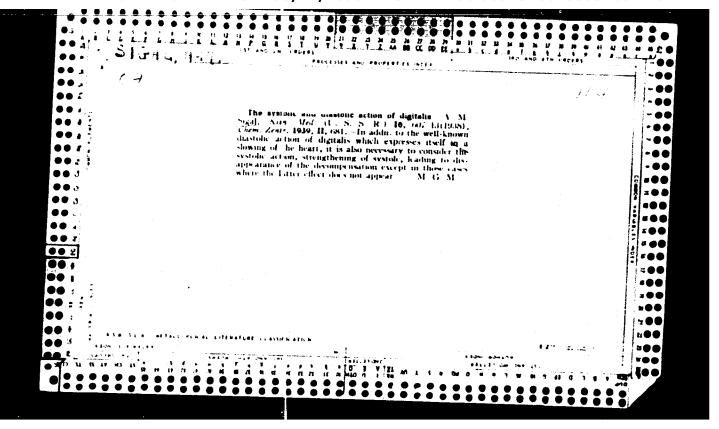
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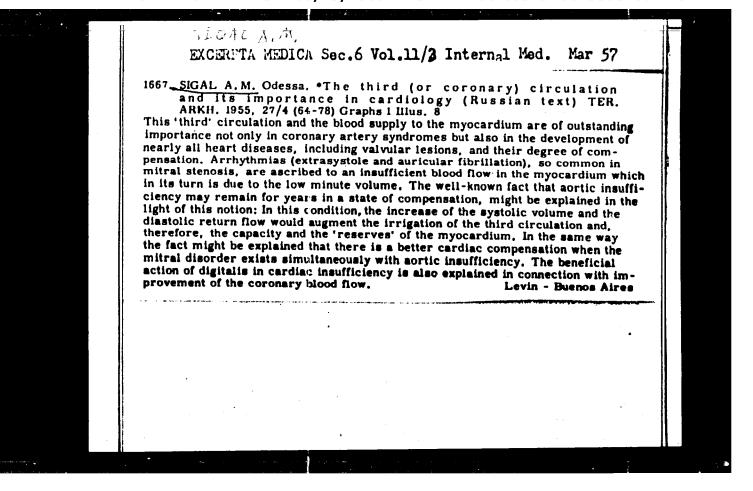
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